

ABSTRACT OF THE DISCLOSURE

A method and system of automatic beam energy control. First, a substrate is provided. Next, hydrogen content of the substrate is measured to determine whether hydrogen content exceeds a critical hydrogen content limit. A warning is issued when hydrogen content exceeds a critical hydrogen content limit. Substrate thickness is measured when hydrogen content does not exceed a critical hydrogen content limit. A database comprising a plurality of beam energy values individually absorbed by substrates of different thicknesses is provided. An appropriate beam energy level corresponding to the measured thickness is provided by the database. Finally, beam energy is delivered to the substrate accordingly.